

Abstract Submitted  
for the APR08 Meeting of  
The American Physical Society

**Measuring the Jet Energy Resolution at CMS: A Data-Driven Approach** AGATA SMORON, University of Illinois, Chicago, CMS COLLABORATION — The Compact Muon Solenoid (CMS) detector at the Large Hadron Collider at CERN is a general-purpose detector designed to study proton-proton collisions at a center-of-mass energy of 14 TeV. Many interesting physics signatures include jets in the final state. Jets are identified by clustering localized energy depositions in the CMS calorimeter detectors. Using a sample of dijet events, we have investigated methods for determining the jet energy resolutions in data as a function of jet's transverse energy and pseudorapidity. Studies demonstrating the validity of these methods using Monte Carlo simulations will be presented.

Greg Landsberg  
Brown University

Date submitted: 10 Jan 2008

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